

Southern California Academy of Sciences 2007 Session Schedule

Friday, June 1, 2007

Location: ONTIVEROS

Session: Aquatic Invasive Species

Chair: Sabrina Drill, University of California Cooperative Extension

- 1 8:40 **TROUBLED WATERS: THE BIOLOGICAL INVASION OF SOUTHERN CALIFORNIA WATERWAYS.**
Louanne McMartin. Non-native Invasive Species Program, U.S. Fish and Wildlife Service, Stockton Fish and Wildlife Office, Stockton, CA 95205.
- 2 9:00 **THE INVASIVE *POTAMOPYRGUS ANTIPODARUM* (NEW ZEALAND MUDSNAIL) IN CALIFORNIA WITH DATA FROM THE UPPER OWENS RIVER WATERSHED.**
G.K. Noda. University of California, Los Angeles, Department of Ecology and Evolutionary Biology, Box 951606, 621 Charles E. Young Dr. South, Los Angeles, CA 90095.
- 3 9:20 **MUDSNAILS INVADE THE 'BU: A CASE STUDY IN INSTITUTIONAL RESPONSES TO INVASIONS.**
D. M. Tamanaha and J. R Topel. Santa Monica Bay Restoration Commission, 320 West 4th St., Suite 200, Los Angeles, CA 90013.
- 4 9:40 **DEVELOPMENT OF BIOLOGICAL CONTROL FOR THE NEW ZEALAND MUD SNAIL.**
T. Dudley¹, K.D. Lafferty^{2,1}, B.L. Fredensborg¹, and A.M. Kuris^{3,1}. ¹Marine Science Institute; ³Department of Ecology, Evolution, and Marine Biology; ²US Geological Survey, Western Ecological Research Center; ^{1,2,3}University of California, Santa Barbara, CA 93106.
- 5 10:00 **EFFECTS OF URBANIZATION ON THE DISTRIBUTION AND ABUNDANCE OF AMPHIBIANS AND INVASIVE SPECIES IN SOUTHERN CALIFORNIA STREAMS.**
Seth P. D. Riley¹, Gary T. Busteed¹, Lee B. Kats², Thomas L. Vandergon², Lena F. S. Lee¹, Rosi G. Dagiti³, Jacob L. Kerby^{1,3,5}, Robert N. Fisher⁴, and Raymond M. Sauvajot¹. ¹Santa Monica Mountains National Recreation Area, National Park Service, 401 W. Hillcrest Dr., Thousand Oaks, CA 91360; ²Department of Biology, Pepperdine University, 24255 Pacific Coast Highway, Malibu, CA 90263; ³Resource Conservation District of the Santa Monica Mountains, 122 N. Topanga Canyon Blvd., Topanga, CA 90290; ⁴U.S. Geological Survey, San Diego Field Station, 5745 Kearny Villa Drive, Suite M, San Diego, CA 92123; ⁵Environmental Science and Policy, 1 Shields Ave., University of California, Davis, CA 95616.
- 6 E 10:20 **AMPHIBIAN LIFE IN RESPONSE TO THE ACTIVE REMOVAL OF EXOTIC SPECIES IN STREAMS OF THE SANTA MONICA MOUNTAINS.**
L. Kats, S. Rollert, T. Thurling, S. Landis, and D. Cho. Pepperdine University, Department of Biology and Behavioral Ecology, Malibu, CA 90263.
- 10:40–11:00 **BREAK**
- 7 11:00 **CALIFORNIA RESPONSE TO THE DISCOVERY OF QUAGGA MUSSEL/ZEBRA MUSSEL IN LAKE MEAD.**
S.R. Ellis. California Department of Fish and Game, Habitat Conservation Branch, Sacramento, CA 95814.
- 8 E 11:20 **DISTRIBUTION, HABITAT UTILIZATION, AND REPRODUCTIVE PATTERNS IN *CAULACANTHUS USTULATUS* (CAULACANTHACEAE, GIGARTINALES), A NEWLY ESTABLISHED SEAWEED ON SOUTHERN CALIFORNIA SHORES.**
K.E. Whiteside, J.R. Smith, and S. N. Murray. California State University, Fullerton, Department of Biological Science, Fullerton, CA 92834.

- 9 11:40 **MANAGING THE SPREAD OF AQUATIC NUISANCE SPECIES THROUGH HACCP PLANNING.**
Denise A. Walther. Non-native Invasive Species Program, U.S. Fish and Wildlife Service, Stockton Fish and Wildlife Office, Stockton, CA 95205.
- 12:00–1:20 **LUNCH BREAK**

Friday, June 1, 2007
Location: ONTIVEROS

Session: Ecological, Environmental and Evolutionary Parasitology

Chair: Donald G. Buth, University of California, Los Angeles

- 1:20 **Introduction, Donald G. Buth**
- 10 1:25 **PARASITES IN FOOD WEBS AS BIOINDICATORS OF ENVIRONMENTAL CONDITIONS.**
Kevin D. Lafferty. University of California, Santa Barbara, CA 93106.
- 11 2:00 **RELATIONSHIPS BETWEEN ENDOHELMINTH ASSEMBLAGES OF FISH AND WATER QUALITY.**
C. Hogue. California State University, Northridge, Department of Biology, Northridge, CA 91330.
- 12 2:20 **THE BIOMASS OF PARASITES AND THE ENERGETICS OF ECOSYSTEMS.**
Armand M. Kuris. University of California, Santa Barbara, CA 93106.
- 13 2:40 **FISH PREDATION ON TREMATODE CERCARIAE IN A CALIFORNIA ESTUARY.**
Amber T. Kaplan, Sayward E. Halling, Kevin D. Lafferty, and Armand M. Kuris.
 University of California, Santa Barbara, CA 93106.
- 3:00–3:20 **BREAK**
- 14 3:20 **DEVELOPMENT OF *ASCAROPHIS* SP. (NEMATODA: CYSTIDICOLIDAE) TO MATURITY IN *GAMMARUS DEUBENI* (AMPHIPODA).**
R.G. Appy. Port of Los Angeles, Environmental Management Division, San Pedro, CA 90371.
- 15 3:40 **PARASITE MANIPULATION OF BRAIN MONOAMINES IN KILLIFISH.**
J.C. Shaw¹, W. J. Korzan², R. E. Carpenter^{3,4}, A. M. Kuris¹, K. D. Lafferty⁵, C. H. Summers^{3,4}, and Ø. Overli^{3,4,6}. ¹Department of Ecology, Evolution and Marine Biology, University of California Santa Barbara, CA; ²Stanford University, Stanford, CA; ³Biology; ⁴Neuroscience Group, Division of Basic Biomedical Sciences, University of South Dakota, Vermillion, SD; ⁵USGS, University of California Santa Barbara, CA; ⁶Department of Animal and Aquacultural Sciences, Norwegian University of Life Sciences, N-1432 Aas, Norway.
- 16 4:00 **THE INFLUENCE OF ECTOPARASITES AND WASTEWATER DISCHARGE ON THE ENDOCRINE STRESS RESPONSE IN MARINE FISHES.**
 J.E. Kalman, **J.A. Reyes**, J.L. Armstrong, K. Sak, and K.M. Kelley. California State University, Long Beach, CA; Orange County Sanitation District, Fountain Valley, CA.
- 17 M 4:20 **THE EFFECTS OF THE ECTOPARASITIC ISOPOD *ELTHUSA CALIFORNICA* ON THE RESPIRATION OF THE SURF PERCH *CYMATOGASTER AGGREGATA***
H.D. Johnston, E. Guirges, and E.N. Kageno. University of California, Los Angeles, Department of Evolutionary and Ecological Biology, Los Angeles, CA 90024.
- 5:00–6:45 **Poster Session and Wine & Cheese Social. Courtyard.**

- 7:00–8:00 **Plenary Lecture.** *Portola Pavilions A & B.*
Dr. Francisco J. Ayala, Donald Bren Professor of Biological Sciences, University of California, Irvine.

DARWIN AND INTELLIGENT DESIGN

- 8:00–9:00 **Book-Signing Reception.** *Chapman Atrium.*

Friday, June 1, 2007
Location: HETEBRINK

Session: On-Going Paleoenvironmental Studies from Southern California and Surrounding Regions

Chair: Matthew E. Kirby, California State University, Fullerton

- 18 P 8:40 **HISTORIC MERCURY DEPOSITION WITHIN THREE SOUTHERN CALIFORNIA SITES.**
Sarah E. Rothenberg¹, Matthew E. Kirby², and Jennifer A. Jay³. ¹Environmental Science and Engineering Program, Box 951772 CHS, University of California, Los Angeles, CA 90095; ²Department of Geological Sciences, California State University, Fullerton, CA 92834; ³Department of Civil and Environmental Engineering, Box 951593 Boelter Hall, University of California, Los Angeles, CA 90095.
- 19 P 9:00 **HIGH-RESOLUTION THIN-SECTION PHOTOMICROGRAPHY ANALYSIS OF A GLACIAL-AGE SEDIMENT CORE FROM BALDWIN LAKE, SOUTHERN CALIFORNIA: A LOOK AT SOME INITIAL RESULTS.**
Michael Blazevic, Matthew Kirby, Adam Woods, Brandon Browne, and Dave Bowman. California State University, Fullerton, Department of Geological Sciences, Fullerton, CA 92831.
- 20 9:20 **THE PALEOENVIRONMENT OF BURGESS SHALE-TYPE DEPOSITS: FROM SOUTHERN CALIFORNIA TO SOUTH CHINA.**
R.R. Gaines. Pomona College, Geology Department, Claremont, CA 91711.
- 21 9:40 **LATE QUATERNARY VEGETATION HISTORY OF THE MOJAVE-COLORADO DESERT ECOTONE AT JOSHUA TREE NATIONAL PARK**
C.A. Holmgren¹, J.L. Betancourt², and K.A. Rylander². ¹California State University, Long Beach, Department of Geography, Long Beach, CA 90840; ²U.S. Geological Survey, 1675 W. Anklam Rd., Tucson, AZ 85745.
- 22 10:00 **CONTEMPORARY WATER QUALITY AND SEDIMENT PROPERTIES OF SOUTHERN CALIFORNIA LAKES.**
M.A. Anderson. University of California, Department of Environmental Sciences, Riverside, CA 92521.
- 23 10:20 **FLOODS, FIRES, AND HUMANS: ASSESSING 150 YEARS OF RAPID DEPOSITIONAL EVENTS IN A SMALL ALPINE LAKE, SOUTHERN CALIFORNIA.**
M.E. Kirby¹, M.B. DeRose¹, and B.W. Bird². ¹California State University, Fullerton, Department of Geological Sciences, Fullerton, CA 92834; ²University of Pittsburgh, Department of Earth Sciences, Pittsburgh, PA.
- 10:40–11:00 **BREAK**
- 24 11:00 **RECONSTRUCTING LATE PLIOCENE TO MIDDLE PLEISTOCENE DEATH VALLEY LAKES AND RIVER SYSTEMS AS A TEST OF PUFFISH (CYPRINODONTIDAE) DISPERSAL HYPOTHESES.**
Jeffrey R. Knott. Department of Geological Sciences, California State University, Fullerton, CA 92834.

- 25 11:20 ON-GOING PALEOENVIRONMENTAL STUDIES ON LAKES FROM CENTRAL CALIFORNIA.
R. Negrini¹, D. Baron¹, M. Palacios-Fest¹, P. Wigand¹, K. O'Sullivan¹, J. Oseguera¹, Ben Fleming¹, Carol Register¹, Elizabeth Powers¹, Jason Leiran¹, Randall Stephenson¹, Adam Johnson², Lisa Pratt², and Dallas Rhodes³. ¹California State University, Bakersfield, CA 93301; ²Indiana University, Bloomington, Indiana 47405; ³Georgia Southern University, Statesboro, GA 30460.
- 26 11:40 LATE PLEISTOCENE PLUVIAL LAKES OF THE OWENS RIVER CASCADE, CALIFORNIA: THE RELATIVE ROLES OF TECTONIC AND CLIMATIC FORCING.
Antony R. Orme¹ and Amalie Jo Orme². ¹Department of Geography, University of California, Los Angeles, CA 90095; ²Department of Geography, California State University, Northridge, CA 91330.
- 12:00–1:20 LUNCH BREAK

Friday, June 1, 2007
 Location: **HETEBRINK**

Session: Prehistoric and Historic Impacts on the Environment

Chair: Steven R. James and Edgar Huerta, California State University, Fullerton

- 1:20 INTRODUCTION: PREHISTORIC AND HISTORIC ENVIRONMENTAL IMPACTS.
S.R. James. Department of Anthropology, California State University, Fullerton, P.O. Box 6846, Fullerton, CA 92834.
- 27 1:40 LATE PREHISTORIC HUMAN IMPACTS ON MARINE FAUNA IN SOUTHERN CALIFORNIA: AN EXAMPLE FROM SAN NICOLAS ISLAND IN THE SOUTHERN CHANNEL ISLANDS.
S. R. James. Department of Anthropology, California State University, Fullerton, P.O. Box 6846, Fullerton, CA 92834.
- 28 2:00 PREHISTORIC MARINE ADAPTATION AND POSSIBLE TRENDS OF OVEREXPLOITATION ON SAN NICOLAS ISLAND.
James Wallace. Department of Anthropology, California State University, Fullerton, 800 N. State College Blvd., Fullerton, CA 92831.
- 29 2:20 FIXING THE LANDSCAPE IN PLACE: TAKIC PLACE NAMES AND NATURAL RESOURCES.
Stephen O'Neil. SWCA Environmental Consultants, 23392 Madera, Suite L, Mission Viejo, CA 92691.
- 30 2:40 BURIED SITES ARCHAEOLOGY: LIFE BY THE LAKES IN LAGUNA CANYON DURING THE INTERMEDIATE AND LATE PREHISTORIC PERIODS.
Roderic N. McLean. LSA Associates, Inc., 20 Executive Park, Suite 200, Irvine, CA 92614.
- 3:00–3:20 BREAK
- 31 3:20 PREHISTORIC AND HISTORICAL ENVIRONMENT INTERACTIONS ALONG SANTA MONICA BAY, CALIFORNIA.
John G. Douglass, Richard Ciolek-Torrello, Benjamin Vargas, Seetha Reddy, Sarah Van Galder, Anne Stoll, and Donn Grenda. Statistical Research, Inc., 21 West Stuart Ave., Redlands, CA 92373.

- 32 3:40 UNDERSTANDING HUMAN RELATIONSHIPS WITH THE ENVIRONMENT THROUGH THE ANALYSIS OF ECONOMIC SYSTEMS DURING THE MIDDLE HOLOCENE IN THE NEWPORT BAY REGION.
Edgar Huerta. Department of Anthropology, California State University, Fullerton, 800 N. State College Blvd., Fullerton, CA 92831.
- 33 E 4:00 TAPHONOMIC IMPLICATIONS OF DIFFERENTIAL PRESERVATION BETWEEN FRESHWATER FISHES.
John Hash. California State University Bakersfield, Department of Biology, Bakersfield, CA 93311.
- 5:00–6:45 Poster Session and Wine & Cheese Social. *Courtyard*.
- 7:00–8:00 Plenary Lecture. *Portola Pavilions A & B*.
Dr. Francisco J. Ayala, Donald Bren Professor of Biological Sciences, University of California, Irvine.

DARWIN AND INTELLIGENT DESIGN

- 8:00–9:00 Book-Signing Reception. *Chapman Atrium*.

Friday, June 1, 2007

Location: GABRIELINO

Session: Ecology, Oceanography and Human Impacts of the Southern California Bight

Chair: Jim Allen, Southern California Coastal Water Research Program (SCCWRP)

- 34 8:20 LONG-TERM ECOLOGY OF THE ICHTHYOFAUNA ADJACENT TO HUNTINGTON BEACH GENERATING STATION: A REVIEW OF ONCE THROUGH COOLING THEN AND NOW IN THE CONTEXT OF OCEANIC REGIME SHIFT.
E.F. Miller¹, D. Shane Beck¹, John Steinbeck², Ernesto Calix², Kevin T. Herbinson³, and Patrick Tennant⁴. ¹MBC Applied Environmental Sciences, Costa Mesa, CA; ²Tenera Environmental, San Luis Obispo, CA; ³ACT Environmental, Inc., Laguna Hills, CA; ⁴Southern California Edison, Rosemead, CA.
- 35 8:40 THE RECOVERING PACIFIC SARDINE (*SARDINOPS SAGAX*) POPULATION AS AN INDICATOR OF LINKAGE BETWEEN THE SOUTHERN CALIFORNIA BIGHT AND THE NORTH PACIFIC TRANSITION ZONE.
P. E. Smith. Integrative Oceanography Division, Scripps Institution of Oceanography, University of California San Diego, La Jolla, CA 92037.
- 36 9:00 CHLORINATED HYDROCARBONS IN PELAGIC FORAGE FISHES AND SQUID OF THE SOUTHERN CALIFORNIA BIGHT.
Erica Jarvis, Kenneth Schiff, Lisa Sabin, and M. James Allen. Southern California Coastal Water Research Project, Costa Mesa, CA.
- 37 9:20 VARIATION IN DDT/PCB CONCENTRATIONS IN WHITE CROAKER (*GENYONEMUS LINIATUS*) IN THE SOUTHERN CALIFORNIA BIGHT: INFLUENCES OF LOCATION, BODY SIZE, AND LIPID CONTENT.
D.A. Witting and G. Baker. NOAA Restoration Center, Long Beach, CA; NOAA Damage Assessment Center, Menlo Park, CA.

- 38 9:40 **CONDITION OF DEMERSAL FISH AND INVERTEBRATE ASSEMBLAGES IN THE SOUTHERN CALIFORNIA BIGHT IN 2003.**
M.J. Allen¹, T. Mikel², D. Cadien³, J. E. Kalman⁴, E. T. Jarvis¹, K. C. Schiff¹, D. W. Diehl¹, S. L. Moore¹, S. Walther³, G. Deets⁵, C. Cash⁵, S. Watts⁶, D. J. Pondella II⁷, V. Raco-Rands¹, C. Thomas⁴, R. Gartman⁸, L. Sabin¹, W. Power³, A. K. Groce⁸, and J. L. Armstrong⁴. ¹Southern California Coastal Water Research Project, Costa Mesa, CA; ²Aquatic Bioassay and Consulting Laboratory, Ventura, CA; ³County Sanitation Districts of Los Angeles County, Whittier, CA; ⁴Orange County Sanitation District, Fountain Valley, CA; ⁵City of Los Angeles, Environmental Monitoring Division, Playa del Rey, CA; ⁶Weston Solutions, Inc., Port Gamble Environmental Laboratories, Port Gamble, WA; ⁷Occidental College Vantuna Research Group, Department of Biology, Los Angeles, CA; ⁸City of San Diego, Metropolitan Wastewater Department, Marine Biology Laboratory, CA.
- 39 10:00 **THE CONDITION OF BENTHIC INVERTEBRATE COMMUNITIES IN THE SOUTHERN CALIFORNIA BIGHT.**
J.A. Ranasinghe¹, A.M. Barnett¹, K. Schiff¹, D.E. Montagne², C. Brantley², C. Beegan³, D.B. Cadien², C. Cash⁴, D.R. Diener⁵, T.K. Mikel⁶, R.W. Smith⁷, R.G. Velarde⁸, S.D. Watts⁹, and S.B. Weisberg¹. ¹Southern California Coastal Water Research Project, 3535 Harbor Blvd., Suite 110, Costa Mesa, CA 92626; ²County Sanitation Districts of Los Angeles County, P.O. Box 4998, Whittier, CA 90607; ³State Water Resources Control Board, Sacramento, CA; ⁴City of Los Angeles, Environmental Monitoring Division, 12000 Vista Del Mar, Playa Del Rey, CA 90293; ⁵P.O. Box 5196, Oceanside, CA 92052; ⁶Aquatic Bioassay and Consulting Laboratories, Inc., 29 North Olive Street, Ventura, CA 93001; ⁷Deceased; ⁸City of San Diego Marine Biology Laboratory, 2392 Kincaid Rd., San Diego, CA 92101; ⁹Weston Solutions, Port Gamble Environmental Laboratories, Port Gamble, WA 98364.
- 40 10:20 **CHARACTERISTICS OF BENTHIC MACROFAUNA OF THE SOUTHERN CALIFORNIA BIGHT.**
T.K. Mikel¹, Ananda Ranasinghe², and David E. Montagne³. ¹Aquatic Bioassay and Consulting Laboratories, Inc., 29 North Olive Street, Ventura, CA 93001; ²Southern California Coastal Water Research Project, 3535 Harbor Blvd., Suite 110, Costa Mesa, CA 92626; ³County Sanitation District of Los Angeles County, P.O. Box 4998, Whittier, CA 90607.
- 10:40–11:00 **BREAK**
- 41 11:00 **MARINE ECOLOGICAL MONITORING STUDIES AT CRYSTAL COVE STATE PARK TO DETERMINE IMPACTS FROM A COASTAL DEVELOPMENT PROJECT.**
 R. F. Ford^{1,2}, M. A. Shane², and J. Kern³. ¹San Diego State University, Biology Department, San Diego, CA 92182; ²Hubbs-Sea World Research Institute, 2595 Ingraham Street, San Diego, CA 92109; ³Kern Statistical Services, Inc., 5175 NE River Road, Sauk Rapids, MN 56379.
- 42 11:20 **MODIS IMAGERY AS A TOOL FOR SYNOPTIC WATER QUALITY ASSESSMENTS IN SOUTHERN CALIFORNIA COASTAL OCEAN.**
Nikolay P. Nezlin¹, Paul M. DiGiacomo², Burton H. Jones³, Kristen M. Reifel³, Scott C. Johnson⁴, Mike Mengel⁵, and Jonathan A. Warrick⁶. ¹Southern California Coastal Water Research Project, Costa Mesa, CA 92626; ²NOAA/NESDIS Center for Satellite Applications and Research (STAR), Camp Springs, MD 20746; ³Department of Biological Sciences, University of Southern California, Los Angeles, CA 90089; ⁴Aquatic Bioassay and Consulting Laboratories, Ventura, CA 93001; ⁵Orange County Sanitation District (OCS), Fountain Valley, CA 92728; ⁶USGS Coastal and Marine Geology Program, Santa Cruz, CA 95060.
- 43 11:40 **SETTING UP A WATER QUALITY MONITORING NETWORK ALONG THE CALIFORNIA COASTLINE**
A.L. Willingham, L. Gilbane, R. Pieper, and A. Resister. Southern California Marine Institute, CICORE (Center for Integrative Coastal Observation Research and Education), San Pedro, CA 90731.
- 12:00–1:20 **LUNCH BREAK**

Friday, June 1, 2007
Location: BRADFORD

Session: Volcanism and Plutonism in the Southwestern U.S.

Chair: Brandon Browne, California State University, Fullerton

- 44 2:00 **CONTRASTING BASALTIC ERUPTION STYLES OBSERVED AT RED CONES, EASTERN SIERRA NEVADA.**
B.L. Browne, M. Louros, and A. Martos. California State University Fullerton, Department of Geological Sciences, Fullerton, CA 92834.
- 45 P 2:20 **PETROLOGIC CONSTRAINTS ON ERUPTION TRIGGERING AT MAMMOTH MOUNTAIN, CALIFORNIA.**
C. Terpolilli and B. Browne. California State University, Fullerton, Department of Geological Sciences, Fullerton, CA 92834.
- 46 2:40 **U-PB DATING OF ZIRCON CRYSTALLIZATION IN THE HOT CREEK RHYOLITE, LONG VALLEY CALDERA, CALIFORNIA: NO CRYSTAL MEMORY OF BISHOP TUFF MAGMA.**
J.A. Vazquez and C. Gainer. Department of Geological Sciences, California State University, Northridge, CA 91330.
- 3:00–3:20 **BREAK**
- 3:20–4:30 THE FOLLOWING POSTERS RELATING TO THIS SESSION WILL BE PRESENTED BY THEIR AUTHORS. *Courtyard.*
- 47 **NEOGENE ALKALINE/SUBALKALINE VOLCANISM IN THE EASTERN MOJAVE PROVINCE.**
S.M. Baltzer and D.R. Jessey. Geological Sciences Department, California State Polytechnic University, Pomona, CA 91768.
- 48 P **VOLCANIC PETROLOGY, GEOCHEMISTRY AND STRATIGRAPHY OF THE GRANDE SOUFRIERE HILLS VOLCANO, DOMINICA, WEST INDIES.**
G.E. Daly and A.L. Smith. California State University, San Bernardino, Department of Geological Sciences, San Bernardino, CA 92407.
- 49 P **PALEOMAGNETIC EVIDENCE FOR TIMESCALES OF MULTI-VENT BASALTIC ERUPTIONS IN BIG PINE VOLCANIC FIELD, CALIFORNIA.**
A. Zohar and E. Nagy-Shadman. California State University, Northridge, Department of Geological Sciences, Northridge, CA 91330.
- 50 P **CONSTRAINING THE RATE AND STYLE OF MAGMA ASCENT AT MAMMOTH MOUNTAIN, EASTERN CALIFORNIA.**
C. Wolfe and B. Browne. California State University, Fullerton, Department of Geological Sciences, Fullerton, CA 92834.
- 51 P **BASALTIC VOLCANISM AND VOLCANIC HAZARDS AT BIG PINE VOLCANIC FIELD, INYO COUNTY, CALIFORNIA.**
Jeffrey M. Woolford and Jorge Vazquez. Department of Geological Sciences, California State University, Northridge, 18111 Nordhoff St., Northridge, CA 91330.
- 52 P **FIELD RELATIONSHIPS AND MINERAL ABUNDANCES OF THE ~5000 YEAR OLD BASALTS ERUPTED FROM RED CONES VOLCANOES, CALIFORNIA.**
A. Martos, M. Louros, and B. Browne. California State University Fullerton, Department of Geological Sciences, Fullerton, CA 92834.

- 53 P RHYOLITE MAGMATISM IN THE BIG PINE VOLCANIC FIELD, EASTERN CALIFORNIA.
M. I. Lidzbarski, J.A. Vazquez, and J.M. Woolford. Department of Geological Sciences, California State University, Northridge, CA 91330.
- 54 P CENOZOIC VOLCANISM ON THE DARWIN PLATEAU.
M.W. Lusk and D.R. Jessey. Geological Sciences Department, California State Polytechnic University, Pomona, CA 91768.
- 55 P PHYSICAL AND CHEMICAL CHARACTERISTICS OF VOLCANIC HOTSPRINGS AT WOTTEN WAVEN, DOMINICA, LESSER ANTILLES.
R. Herlihy, J.E. Fryxell, and A.L. Smith. California State University, San Bernardino, Department of Geological Sciences, San Bernardino, CA 92407.
- 56 P ERUPTIVE HISTORY OF SOUFRIERE VOLCANO, ST. VINCENT AS ILLUSTRATED BY THREE PYROCLASTIC SEQUENCES.
L.J. Estrella and A.L. Smith. Department of Geological Sciences, California State University, San Bernardino, CA 92407.
- 5:00–6:45 Poster Session and Wine & Cheese Social. *Courtyard.*
- 7:00–8:00 Plenary Lecture. *Portola Pavilions A & B.*
Dr. Francisco J. Ayala, Donald Bren Professor of Biological Sciences, University of California, Irvine.

DARWIN AND INTELLIGENT DESIGN

- 8:00–9:00 Book-Signing Reception. *Chapman Atrium.*

Friday, June 1, 2007

Location: GILMAN

Session: Contributed Papers

- 57 E 9:00 IMMIGRATION IN THE OCEAN: STATOLITHS AS LARVAL PASSPORTS.
S.E. Koch¹, G. Paradis², S.D. Gaines², R.R. Warner², and D.C. Zacherl¹. ¹Department of Biological Science, California State University, Fullerton, P.O. Box 6850, Fullerton, CA 92834; ²Department of Ecology, Evolution and Marine Biology, University of California, Santa Barbara, CA 93101.
- 58 E 9:20 GLOBAL POPULATION STRUCTURE OF THE TOPE (*GALEORHINUS GALEUS*), AS INFERRED BY MITOCHONDRIAL CONTROL REGION SEQUENCE DATA.
C.L. Chabot. Nearshore Marine Fish Research Program, California State University, Northridge, Department of Biology, Northridge, CA 91330.
- 59 E 9:40 REPRODUCTIVE LONGEVITY IN THE POLYCHAETOUS ANNELID *DINOPHILUS GYROCILLATUS*.
Jessica Dewar and Cheryl Bube. Department of Biological Sciences, California State University, Long Beach, CA 90840.
- 60 E 10:00 THE MECHANISM OF MALE CHOICE IN THE SEMELPAROUS POLYCHAETE *NEANTHES ACUMINATA*.
Ellen J. Storey. Department of Biological Sciences, University of Hull, Cunningham Road, Hull, United Kingdom, HU6 7RX.
- 61 E 10:20 TO SETTLE OR NOT TO SETTLE: SEASONAL SETTLEMENT OF OYSTER LARVAE, *OSTREA CONCHAPHILA*, IN TWO SOUTHERN CALIFORNIA ESTUARIES.
E. M. Seale and D. C. Zacherl. Southern California Ecosystems Research Program, California State University, Fullerton, CA 92834.

- 10:40–11:00 **BREAK**
- 62 F 11:00 **MEDIAL RED MUSCLE DEVELOPMENT IN THE YELLOWFIN TUNA (*THUNUS ALBACARES*).**
J. M. Dickson and K. A. Dickson. Department of Biological Science, California State University, Fullerton, CA 92831.
- 63 F 11:20 **AN EMBRYONIC STAGING SERIES FOR THE CALIFORNIA GRUNION, *LEURESTHES TENUIS*.**
C. L. Moravek, J. A. Flannery, and K. L. Martin. Pepperdine University, Department of Biology, Malibu, CA 90263.
- 64 F 11:40 **MICROSATELLITE AND MORPHOLOGICAL INVESTIGATION OF AN APPARENTLY DISJUNCT NORTHERN POPULATION OF CALIFORNIA GRUNION, *LEURESTHES TENUIS*.**
P.B. Johnson, T. Vandergon, R. Honeycutt, and K. Martin. Pepperdine University, Department of Biology, Malibu, CA 90263.
- 12:00–1:20 **LUNCH BREAK**
- 65 1:20 **RECIPE: A NOVEL RESEARCH PROJECT THAT IS MORE THAN HALF-BAKED.**
A. Dalkey. Palos Verdes Peninsula Land Conservancy, 916 Silver Spur Road #207, Rolling Hills Estates, CA 90274.
- 66 1:40 **EFFECTS OF A PURPOSE-BUILT UNDERPASS ON WILDLIFE ACTIVITY AND TRAFFIC-RELATED MORTALITY IN SOUTHERN CALIFORNIA: THE HARBOR BOULEVARD WILDLIFE UNDERPASS.**
David Elliott and Paul Stapp. Department of Biological Science, California State University, Fullerton, CA 92834.
- 67 E 2:00 **ETHNOBOTANY IN THE CANADIAN ARCTIC: A SURVEY OF THE COPPER INUIT.**
J.D. Davis and S. A. Banack. California State University, Fullerton, Department of Biological Science, Fullerton, CA 92831.
- 68 E 2:20 **MALE CRICKET AGGRESSION AND PREDATION RISK: MALE CRICKETS FIGHTING OVER SPIDER SILK.**
L. J. Buena and S. E. Walker. California State University, Fullerton, Department of Biological Science, Fullerton, CA 92831.
- 69 E 2:40 **A COMPARISON OF PREDATORY AND NON-PREDATORY MAMMAL MANAGEMENT POLICIES IN THE ELEVEN WESTERN STATES.**
J.B. Litvak. California State University, Fullerton, Department of Environmental Studies, Fullerton, CA 92834.
- 3:00–3:20 **BREAK**
- 70 E 3:20 **MOTH DIVERSITY ALONG AN ELEVATIONAL GRADIENT IN SOUTHEAST ARIZONA.**
C. Francois and S. E. Walker. California State University, Fullerton, Department of Biological Science, Fullerton, CA 92834.
- 71 3:40 **DIFFERENTIALLY ALTERING THE ABILITY OF *HAEMOPHILUS INFLUENZAE* TO FORM BIOFILMS BY USING SUBTHERAPEUTIC DOSES OF MULTIPLE ANTIBIOTICS.**
Yamila Hernandez, Ken Bradley, and Robert Damoiseaux. Palos Verdes Peninsula, 27118 Silver Spur Rd., Rolling Hills Estates, CA 90274; University of California, Los Angeles, Molecular Sciences Department, Los Angeles, CA 90095.
- 72 4:00 **IS YOUR BEACH IN HOT WATER? WARMING WATER TEMPERATURES CAUSE ERRONEOUS BACTERIAL EXCEEDANCES USING STANDARD BACTERIAL METHODS.**
L.A.A. Aumand, A.L. Trinh, and T.K. Smith-Kruck. Weston Solutions, Inc., Microbial Sciences Laboratories, 2433 Impala Dr., Carlsbad, CA 92010.

- 73 E 4:20 **CONSEQUENCES OF MANY GENERATIONS OF HYBRIDIZATION UNDER BOTH STRESSFUL AND BENIGN CONDITIONS.**
A. S. Hwang and S. Edmands. University of Southern California, Department of Biological Sciences, Los Angeles, CA 90089.
- 105 E 4:40 **CONTROLS ON PLANT GAS EXCHANGE ACROSS A GRASSLAND TO SHRUBLAND GRADIENT IN OWENS VALLEY, CALIFORNIA.**
C.M. Goedhart¹, D.E. Pataki¹, and S.A. Billings². ¹University of California, Irvine, Department of Ecology and Evolutionary Biology, Irvine, CA 92697; ²University of Kansas, Department of Ecology and Evolutionary Biology, Lawrence, KS 66045.
- 5:00–6:45 **Poster Session and Wine & Cheese Social.** *Courtyard.*
- 7:00–8:00 **Plenary Lecture.** *Portola Pavilions A & B.*
Dr. Francisco J. Ayala,
Donald Bren Professor of Biological Sciences, University of California, Irvine.
- DARWIN AND INTELLIGENT DESIGN**
- 8:00–9:00 **Book-Signing Reception.** *Chapman Atrium.*

Friday, June 1, 2007

Location: ALVARADO

Session: Biology of Rocky Reefs

Chair: Dan Pondella, Occidental College, and Robert Grove, Southern California Edison

- 74 11:00 **PERSISTENCE AND ITS LIMITING FACTORS IN SOUTHERN CALIFORNIA KELP BEDS.**
Michael D. Curtis. Senior Scientist, MBC Applied Environmental Sciences, Costa Mesa, CA.
- 75 11:20 **A SATELLITE DERIVED DATABASE OF GLOBAL KELP CANOPY DISTRIBUTION.**
Larry Deysher. PO Box 232296, Leucadia, CA 92023.
- 76 E 11:40 **PHOTOACCLIMATION ALONG A VERTICAL GRADIENT IN DIFFERENT GROWTH STAGES IN THE ELK KELP, *PELAGOPHYCUS PORRA*.**
Stacie M. Fejtek¹, Matthew S. Edwards¹, and Kwan-Young Kim². ¹Department of Biology, San Diego State University, San Diego, CA; ²Department of Oceanography, Chonnam National University, Gwangju, Korea.
- 12:00–1:20 **LUNCH BREAK**
- 77 1:40 **COMMUNITY-BASED GIANT KELP RESTORATION AND MONITORING IN ORANGE COUNTY, CALIFORNIA.**
N.L. Caruso. Kelp Project Manager, California Coastkeeper Alliance, PO Box 3156, Fremont, CA 94539.
- 78 2:00 **RESTORED KELP BEDS OFF OF MALIBU AND PROGRESS OFF PALOS VERDES, WORTH DIVING FOR.**
T. Ford. Santa Monica Baykeeper Kelp Restoration and Monitoring Project, P.O. Box 10096, Marina Del Rey, CA 90295.

- 79 E 2:20 **FISH-HABITAT ASSOCIATIONS AND THE ROLE OF DISTURBANCE IN SURFGRASS BEDS.**
Carey J. Galst. San Diego State University, Department of Biology, San Diego, CA 92182.
- 81 2:40 **EXTRAPOLATING RESULTS OF SMALL-SCALE FIELD EXPERIMENTS TO ENHANCE POPULATIONS OF A CORAL REEF FISH AT LARGE SPATIAL SCALES.**
Mark A. Steele and Graham E. Forrester. Department of Biology, California State University, Northridge, CA 91330; Department of Natural Resources Science, University of Rhode Island, Kingston, RI 02881.
- 3:00–3:20 **BREAK**
- 82 F 3:20 **THE RELATIVE EFFECTS OF BIOGEOGRAPHY AND SIZE-SELECTIVE FISHING PRESSURE ON THE POPULATION STRUCTURE AND SEX-CHANGE DYNAMICS OF THE CALIFORNIA SHEEPHEAD, *SEMICOSSYPHUS PULCHER*.**
L.S. Wetmore. Vantuna Research Group, Occidental College, Department of Biology, Los Angeles, CA 90041.
- 83 3:40 **ISOLATING THE EFFECTS OF LARVAL SOURCE ON THE POPULATION OF A MARINE INVERTEBRATE**
S.C. Schroeter¹, D. Reed¹, and P. Raimondi². ¹Marine Science Institute, University of California, Santa Barbara, CA 93106; ²Department of Ecology and Evolutionary Biology, University of California, Santa Cruz, CA.
- 84 4:00 **DEMOGRAPHIC PARAMETERS OF YELLOWFIN CROAKER, *UMBRINA RONCADOR* (PERCIFORMES: SCIAENIDAE) FROM THE SOUTHERN CALIFORNIA BIGHT.**
D. J. Pondella, II¹, J. T. Froeschke², L. S. Wetmore¹, E. Miller³, C. F. Valle⁴, and Lea Medeiros¹. ¹Vantuna Research Group and Department of Biology, Moore Laboratory of Zoology, Occidental College, Los Angeles, CA 90041; ²Texas A&M University - Corpus Christi, TX; ³MBC Applied Environmental Sciences; ⁴California Department of Fish and Game.
- 85 4:20 **FISH SPECIES COMPOSITION FROM THE SOFT-BOTTOM OF BAHÍA DE LOS ÁNGELES, BAJA CALIFORNIA, MEXICO (2005-2007).**
Jorge A. Rosales-Casian¹ and Phillip A. Hastings². ¹Departamento de Ecología, Grupo de Ecología Pesquera, Centro de Investigación Científica y Educación Superior de Ensenada (CICESE), Km 107 carretera Tijuana-Ensenada, Ensenada, Baja California, México; ²Scripps Institution of Oceanography, University of California San Diego, 9500 Gilman Dr., La Jolla, CA 92093.
- 86 4:40 **IMPACTS OF HABITAT USE ON CONTAMINANT CONCENTRATIONS IN SEVERAL SPECIES OF FISHES COLLECTED IN THE PALOS VERDES SUPER-FUND SITE.**
D.A. Witting and G. Baker. NOAA Restoration Center, Long Beach, CA; NOAA Damage Assessment Center, Menlo Park, CA.
- 5:00–6:45 **Poster Session and Wine & Cheese Social. Courtyard.**
- 7:00–8:00 **Plenary Lecture. Portola Pavilions A & B.**
Dr. Francisco J. Ayala,
Donald Bren Professor of Biological Sciences, University of California, Irvine.
- DARWIN AND INTELLIGENT DESIGN**
- 8:00–9:00 **Book-Signing Reception. Chapman Atrium.**

Friday, June 1, 2007
Location: COURTYARD

Session: Poster Session, 5:00–6:45 p.m.

SEE PAPERS 47–56 FOR ADDITIONAL POSTERS

- 87 **BALLONA WETLANDS – BOLD VEGETATION GIS MAPPING PROJECT.**
Ned Bader and Pippa Drennan. Loyola Marymount University, College of Science and Engineering, Los Angeles, CA 90045.
- 88 M **THE EFFECT OF DL-HOMOCYSTEINE ON MINERALIZATION IN OSTEOBLAST-LIKE CELL CULTURES.**
M. Barakat, S. Choi, E.J. Jung, and E.E. Joseph. La Sierra University, Department of Biology, Riverside, CA 92505.
- 89 **NEUROTOXINS IN OUR ENVIRONMENT.**
T. Buretta and S. Banack. Institute for Ethnomedicine, California State University Fullerton, Department of Biological Science, Fullerton, CA 92831.
- 90 P **EVIDENCE FOR RAPID LAKE LEVEL CHANGE DURING THE LAST GLACIAL MAXIMUM IN SOUTHERN CALIFORNIA (LAKE ELSINORE).**
J.E. Carrasco, M.E. Kirby, and S.P. Lund. California State University, Fullerton, Department of Geological Sciences, Fullerton, CA 92831.
- 91 M **BURST SWIMMING PERFORMANCE AND METABOLIC ENZYME ACTIVITIES IN LARVAL AND JUVENILE WHITE SEABASS (*TRACTOSCION NOBILIS*).**
A. Carrillo and K. A. Dickson. Southern California Ecosystem Research Program, Department of Biological Science, California State University, Fullerton, CA 92834.
- 92 E **SONG RECOGNITION IN PLAYBACK EXPERIMENTS IN ANNA'S HUMMINGBIRD, *CALYPTE ANNA*.**
Carina Castro and Anne Houtman. Southern California Ecosystem Research Program, California State University, Fullerton, Department of Biological Science, Fullerton, CA 92831.
- 93 **BMAA, A NEUROTOXIN IN THE TRADITIONAL CHAMORRO FOOD.**
R. Cheng, M. Suazo, and S. Banack. Institute for Ethnomedicine, California State University Fullerton, Department of Biological Science, Fullerton, CA 92831.
- 94 M **CHARACTERIZING THE UPSTREAM REGULATORY REGION OF BP180.**
Jennifer Cherone and Amy Soto. Andersen Laboratory, University of California Irvine, Departments of Medicine (Endocrinology) and Biological Chemistry, Irvine, CA 92697.
- 95 E **AGGRESSION AND BIG HEADS: SEXUAL DIMORPHISM IN HOUSE CRICKETS (*ACHETA DOMESTICUS*).**
C. J. Collins, I. Adame, D. Lim, and S. E. Walker. Department of Biological Science, California State University, Fullerton, CA 92831.
- 96 **DOCUMENTATION OF COYOTES ON THE PALOS VERDES PENINSULA.**
Ann Dalkey¹ and Rebecca Niemiec². ¹Palos Verdes Peninsula Land Conservancy, 916 Silver Spur Road #207, Rolling Hills Estates, CA 90274; ²Chadwick High School, 26800 S. Academy Drive, Palos Verdes Peninsula, CA 90274.
- 97 E **HAS THE STATEWIDE BAN ON *CAULERPA* SPECIES BEEN EFFECTIVE? A SURVEY OF SOUTHERN CALIFORNIA AQUARIUM RETAIL STORES.**
S.H. Diaz¹, S.F. Zaleski², J.R. Smith¹, and S.N. Murray¹. ¹Department of Biological Science, California State University, Fullerton, CA 92834; ²Sea Grant Program, University of Southern California, Los Angeles, CA 90089.

- 98 E **ECOTONE BIODIVERSITY IN THE CHAPARRAL-RIPARIAN TRANSITION.**
S.C. Dobbie. Ecology and Paleoecology Research Group, Department of Life Sciences, Pasadena City College, CA 91106.
- 99 **ETHYLENE AS A POSSIBLE GERMINATION CUE FOR SAND VERBENAS (*ABRONIA* SPP., NYCTAGINACEAE).**
Philippa M. Drennan and Kristine Tulio. Loyola Marymount University, Department of Biology, Los Angeles, CA 90045.
- 100 **FIRES OF KELVIN CANYON.**
L.E. Eckert. California Polytechnic State University, Earth and Soil Sciences Department, San Luis Obispo, CA 93405.
- 101 E **INFLUENCE OF ANTHROPOGENIC NOISE ON SONG STRUCTURE IN ANNA'S AND COSTA'S HUMMINGBIRDS.**
Sarah English and Anne Houtman. Department of Biological Science, California State University, Fullerton, CA 92834.
- 102 E **THE EFFECTS OF HYDROPERIOD ON THE GROWTH RATES OF FLORIDA FLAGFISH, *JORDANELLA FLORIDAE*, IN THE FLORIDA EVERGLADES.**
S.M. Estes¹ and J.C. Trexler². ¹University of California, Department of Ecology and Evolutionary Biology, Los Angeles, CA 90095; ²Florida International University, Department of Biological Sciences, Miami, FL 33199.
- 103 **GEOCHRONOLOGY AND PALEOENVIRONMENT OF PLUVIAL HARPER LAKE, MOJAVE DESERT, CALIFORNIA.**
Anna L. Garcia and Jeffrey R. Knott. California State University, Fullerton, Department of Geological Sciences, Fullerton, CA 92831.
- 104 F **POSSIBLE HEAT SOURCES FOR CRANIAL ENDOTHERMY IN THE YELLOW-FIN TUNA.**
M. Garcia, I.M. Buan, R. Runcie, and K.A. Dickson. Department of Biological Science, California State University, Fullerton, CA 92834.
- 106 M **THE EFFECTS OF GLYPHOSATE ON PROLIFERATION OF *RANA PIPIENS* SPLENOCYTES STIMULATED WITH CON A AND PHA.**
Jeannie Gonzalez and Christine Broussard. Department of Biology, University of La Verne, La Verne, CA 91750.
- 107 **10-YEAR ASSESSMENT OF SOFT-BOTTOM MACROBENTHIC ASSEMBLAGES OFF THE COAST OF SAN DIEGO.**
R.N. Haring, T.D. Stebbins, D. Pasko, and D. James. City of San Diego Marine Biology Laboratory, Environmental Monitoring & Technical Services Division, Metropolitan Wastewater Department, San Diego, CA.
- 108 F **LENGTH, WEIGHT AND GENDER COMPARISONS OF THE BAY PIPEFISH (*SYNGNATHUS LEPTORHYNCHUS*) FROM THREE CENTRAL CALIFORNIA COASTAL LOCATIONS.**
M. Kodama, B. Lau, and J. M. Vallejo. University of California, Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA 90095.
- 109 E **PREDATION IN EELGRASS BEDS: DO TROPHIC MANIPULATIONS RESULT IN CASCADING EFFECTS?.**
L.S. Lewis and T.W. Anderson. Fish Ecology Lab, San Diego State University, Department of Biology, San Diego, CA 92182.
- 110 **THE EFFECTS OF STRESS AND EXERCISE ON THE EXPRESSION OF BCL-2 ASSOCIATED PROTEIN X AND BRAIN-DERIVED NEUROTROPHIC FACTOR.**
H. T. Luu¹, D. E. Haack², M.J. Chen², and A. Russo-Neustadt². ¹Alhambra High School, Alhambra, CA 91801; ²Department of Biological Sciences, California State University, Los Angeles, CA 90032.

- 111 E **FEEDING RATES OF NATIVE CONSUMERS ON INTRODUCED AND NATIVE SEAWEEDS ON URBAN SOUTHERN CALIFORNIA SHORES.**
C.N. Navarro, J.R. Smith, and S.N. Murray. California State University Fullerton, Department of Biological Science, Fullerton, CA 92834.
- 112 E **PREDICTORS OF SUCCESSION IN A CHRONOSEQUENCE OF *IMPERATA* INFESTED COMMUNITIES.**
A.M. Nishimura. University of California, Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA 90095.
- 113 M **THE EFFECTS OF SODIUM BUTYRATE ON THE ORGANIZATION OF ACTIN FILAMENTS IN U87MG BRAIN TUMOR CELLS.**
I. Oh, E. Liu, and J. Wilson. La Sierra University, Department of Biology, Riverside, CA 92515.
- 114 M **HYPOCHLORITE-INDUCED DEATH REVEALS THAT MICROPYLAR CELL DIVISION IS NOT NECESSARY FOR DEVELOPMENT OF *SPATHOGLOTTIS PLICATA* SEEDLINGS.**
R.S. Pardiwala and S. Darling Novak. University of La Verne, Department of Biology, La Verne, CA 91750.
- 115 E **THE EFFECTS OF AN INVASIVE PLANT SPECIES, *VINCA MAJOR*, ON ARTHROPOD COMMUNITIES IN RIPARIAN HABITAT AT STARR RANCH AUDUBON SANCTUARY, CALIFORNIA.**
E.S. Peralta and S.E. Walker. Southern California Ecosystems Research Program, California State University, Fullerton, Department of Biology, Fullerton, CA 92831.
- 116 M **THE POPULATION GENETICS OF ROUND STINGRAYS FROM SOUTHERN CALIFORNIA ASSESSED BY MICROSATELLITE MARKERS.**
S.M. Plank, C.G. Lowe, and J.A. Brusslan. California State University Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840.
- 117 E **FEEDING PREFERENCES OF THE MARINE GASTROPOD *APLYSIA VACCARIA*.**
M. R. Raith and D. C. Zacherl. Southern California Ecosystems Research Program, California State University, Fullerton, CA 92834.
- 118 M **INDUCED OXIDATIVE STRESS DECREASES MINERALIZATION IN BONE-LIKE CELL CULTURES.**
M. Rauf, A. Heyn, S. Torres, and E.E. Joseph. La Sierra University, Department of Biology, Riverside, CA 92505.
- 119 **COMPARISON OF THREE ANALYTICAL METHODS TO DETERMINE CHLOROPHYLL CONCENTRATION IN THE OCEAN.**
A.L. Register, L. Gilbane, and R. Pieper. Southern California Marine Institute, CICORE (Center for Integrative Coastal Observation Research & Education), San Pedro, CA 90731.
- 120 F **COMMUNITY STRUCTURE OF MACROPARASITES OF THE VERMILION ROCKFISH, *SEBASTES MINIATUS*, FROM RECREATIONAL FISHING CATCHES OF SAN QUINTÍN, BAJA CALIFORNIA, MEXICO.**
M.A. Rodriguez-Santiago¹ and J.A. Rosales-Casián². ¹Facultad de Ciencias Marinas (UABC), Km 106 carretera Tijuana-Ensenada, Ensenada, Baja California, México, C.P. 22800; ²Departamento de Ecología, Grupo de Ecología Pesquera, Centro de Investigación Científica y Educación Superior de Ensenada (CICESE), Km 107 carretera Tijuana-Ensenada, Ensenada, Baja California, México, C.P. 22800.
- 121 E **TEMPORAL AND SPATIAL VARIATION IN SETTLEMENT OF *OSTREA CONCHAPHILA* IN NEWPORT BAY, CALIFORNIA.**
Lily A. Sam and Danielle Zacherl. Southern California Ecosystems Research Program, Department of Biological Science, California State University, Fullerton, CA 92831.

- 122 M THE EFFECTS OF SODIUM BUTYRATE ON U87MG BRAIN TUMOR CELL MIGRATION AND INVASION.
C. Shaw, M. Sirichotiratana, A. Mesipam, and J. Wilson. La Sierra University, Department of Biology, Riverside, CA 92515.
- 123 E ANTHROPOGENIC CONTROLS OF HARMFUL PHYTOPLANKTON TAXA IN SANTA MONICA BAY.
A. Corcoran and R. Shipe. University of California Los Angeles, Department of Ecology and Evolutionary Biology & the Institute of the Environment, Los Angeles, CA 90095.
- 124 EFFECT OF TEMPERATURE AND RATION LEVEL ON THE GROWTH OF YOUNG-OF-THE YEAR COHO SALMON (*ONCORHYNCHUS KISUTCH*): A COMPARISON BETWEEN OREGON AND CENTRAL CALIFORNIA STOCKS.
Erick A. Sturm, John M. Silveus, and R. Bruce MacFarlane. National Marine Fisheries Service, 110 Shaffer Road, Santa Cruz, CA 95060.
- 125 PERCENT METHYLATION AND ITS RELATIONSHIP WITH AGING.
Shelly Tat and Dr. Shibata. USC Norris Cancer Center, 1441 Eastlake Ave., Los Angeles, CA 90033.
- 126 P DETERMINING THE TIMING AND OFFSET OF SECONDARY NORMAL FAULTS IN THE KIT FOX HILLS ADJACENT THE NORTHERN DEATH VALLEY FAULT ZONE.
B.M. Taylor and J.R. Knott. California State University Fullerton, Department of Geological Sciences, Fullerton, CA 92831.
- 127 F DEVELOPMENT OF JAW MUSCULO-SKELETAL STRUCTURE IN THE YELLOW-FIN TUNA AND THE EASTERN PACIFIC BONITO.
S. Truong and K.A. Dickson. Department of Biological Science, California State University, Fullerton, CA 92831.
- 128 E MORPHOLOGICAL VARIATION OF *YUCCA BREVIFOLIA* (AGAVACEAE) AMONG SEVEN POPULATIONS IN THE MOJAVE DESERT.
T. R. Valentovich and D. R. Sandquist. California State University, Fullerton, Department of Biological Science, Fullerton, CA 92831.
- 129 M THE ACETYLCHOLINESTERASE INHIBITOR MALATHION IS NOT TOXIC TO THYMOCYTES, BUT MAY ALTER THE DEVELOPMENTAL PROGRAM AT LOW DOSES.
Christine Broussard and Jessica Varney. Department of Biology, University of La Verne, La Verne, CA 91750.
- 130 M EFFECTS OF METHOXYCHLOR EXPOSURE ON THE DEVELOPMENT OF CD4 T-CELLS IN C57BL/6 MICE.
A.J. Vasa and Christine Broussard. Department of Biology, University of La Verne, La Verne, CA 91750.
- 131 COMPUTATIONAL ANALYSIS OF GRAINYHEAD-LIKE EPITHELIAL TRANSACTIVATOR (GET1) REGULATED GENES.
Madhvi Venkatesh, Ambica Bhandari, and Bogi Andersen. University of California, Department of Biological Chemistry, Irvine, CA 92697.
- 132 M THE EFFECTS OF SODIUM BUTYRATE ON THE SECRETION OF MATRIX METALLOPROTEINASES BY U87MG BRAIN TUMORS.
B. Villegas, M. Kim, J. Hoang, and J. Wilson. La Sierra University, Department of Biology, Riverside, CA 92515.

- 133 E **EXPERIMENTAL RESTORATION OF THE ROCKY INTERTIDAL BROWN ALGA *SILVETIA COMPRESSA* ON URBAN SOUTHERN CALIFORNIA SHORES.**
Stephen G. Whitaker, J.R. Smith, and S.N. Murray. California State University Fullerton, Department of Biological Science, Fullerton, CA 92834.
- 134 E **SPATIAL AND TEMPORAL VARIATION IN $\delta^{13}\text{C}$ AND $\delta^{15}\text{N}$ VALUES OF MACROALGAE IN SOUTHERN CALIFORNIA WATERS.**
S.C. Vogt¹, L. Gilbane², A. Bullard¹, J.R. Smith¹, and S.N. Murray¹. ¹Department of Biological Science, California State University, Fullerton, CA 92834; ²Southern California Marine Institute, Terminal Island, CA 90731.
- 135 **HEAT SHOCK PROTEIN 70 (HSP70) EXPRESSION IN MULTIPLE SCLEROSIS.**
Amy Young. Multiple Sclerosis Research Group, University of Southern California, Keck School of Medicine, McKibben Hall, 1333 San Pablo Street, Los Angeles, CA 90033.
- 136 **A STUDY OF FECAL INDICATOR BACTERIA IN THE BALLONA WETLANDS AND DEL REY LAGOON, LOS ANGELES, CALIFORNIA.**
S. Yanamadala and J.H. Dorsey. Chadwick School, 26800 S. Academy Drive, Palos Verdes, CA 90274.
- 137 **GEOGRAPHICAL, TAXONOMICAL, TEMPORAL AND HOST SIZE/AGE COMPARISONS OF INTESTINAL PARASITES IN THREE SPECIES OF SCULPINS.**
Jonathan Sim, Kathryn Fabella, and Alexander Mack Cruz. University of California, Los Angeles, CA 90095.

Saturday, June 2, 2007

Location: GABRIELINO

Session: Paleontology of Southern California

Chair: Mark Roeder, San Diego Museum of Natural History

- 138 E 9:00 **A TAXONOMIC REVIEW OF LATE CRETACEOUS CIMOLESTIDS.**
J.J. Strauss. San Diego State University, Department of Biology, San Diego, CA 92182.
- 139 9:20 **PRELIMINARY REVISION OF AGRIOCHOERID OREODONTS OF SOUTHERN CALIFORNIA.**
J. A. Ludtke. San Diego State University, Department of Biology, San Diego, CA 92182.
- 140 E 9:40 **PHYLOGENETIC POSITION AND BIOGEOGRAPHICAL IMPLICATIONS OF SOUTHERN CALIFORNIA TORTOISES.**
C.B. Jones. San Diego State University, Department of Biology, San Diego, CA 92182.
- 141 10:00 **LAND MAMMALS FROM THE MIDDLE MIOCENE SHARKTOOTH HILL BONEBED, KERN COUNTY, CALIFORNIA.**
Donald R. Prothero¹, Matthew R. Liter¹, Lawrence G. Barnes², and Xiaoming Wang². ¹Department of Geology, Occidental College, Los Angeles, CA 90041; ²Department of Vertebrate Paleontology, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007.
- 142 10:20 **A NORTHERN OCCURRENCE OF THE COTTON RAT *SIGMODON MEDIUS* WITH *PLIOPHENACOMYS PRIMAEVUS* FROM LATE PLIOCENE AGE DEPOSITS OF MODOC COUNTY, NORTHEASTERN CALIFORNIA.**
Hugh M. Wagner. Department of Paleontology, San Diego Natural History Museum, P.O. Box 121390, San Diego, CA.
- 10:40–11:00 **BREAK**

11:00–11:20 **Student Grant Awards.** *Titan Theatre.*

11:20–12:20 **Plenary Lecture.** *Titan Theatre.*

Dr. Steve Murray, Dean of Natural Sciences and Mathematics, California State University, Fullerton.

SCIENCE, POLITICS, THE PUBLIC AND PROTECTING CALIFORNIA'S COASTAL
MARINE ECOSYSTEMS

12:20–1:20 **LUNCH BREAK**

143 1:20 **A NEW IRVINGTONIAN LAND MAMMAL ASSEMBLAGE FROM THE SAUGUS FORMATION, MOORPARK, VENTURA COUNTY, CALIFORNIA.**

Hugh M. Wagner¹, E. Bruce Lander¹, Mark A. Roeder¹, Donald R. Prothero², and George E. McDaniel, Jr.³ ¹Paleo Environmental Associates, Inc., 2248 Winrock Ave., Altadena, CA 91001; ²Occidental College, Department of Geology, 1600 Campus Rd., Los Angeles, CA 90041; ³Anza-Borrego Desert State Park, Stout Paleontology Laboratory, P.O. Box 1720, Borrego Springs, CA 92004.

144 1:40 **REVISED TEMPORAL RESOLUTION OF THE LATE IRVINGTONIAN AGE FAIRMEAD LANDFILL FAUNA, MADERA COUNTY, CALIFORNIA.**

Hugh M. Wagner¹ and L.H. Fisk². ¹Department of Paleontology, San Diego Natural History Museum, P.O. Box 121390, San Diego, CA; ²PaleoResource Consultants, 5325 Elkhorn Boulevard, #294, Sacramento, CA 95842.

145 2:00 **NEW RECORDS OF FOSSIL SHARKS AND BONY FISHES FROM THE LATE MIOCENE IMPERIAL GROUP OF THE ANZA BORREGO REGION, SAN DIEGO COUNTY, CALIFORNIA.**

Mark A. Roeder¹ and Jerry M. Hughes². ¹Department of Paleontology, San Diego Natural History Museum, P. O. Box 121390, San Diego, CA 92112; ²Colorado District Stout Research Center, Anza Borrego Desert State Park, 200 Palm Canyon Drive, Borrego Springs, CA 92004.

146 2:20 **A FOSSIL ZIPHIID WHALE (CETACEA: ODONTOCETI) FROM THE LATEST MIOCENE CAPISTRANO FORMATION IN SOUTHERN ORANGE COUNTY, CALIFORNIA.**

Mark R. Deering¹, Lawrence A. Barnes², Sarah A. Siren^{1,3}, Samuel A. McLeod², Maureen O. Walsh¹, and Karin A. Rice¹. ¹Stantec Consulting Inc., 19 Technology Drive, Irvine, CA 92618; ²Department of Vertebrate Paleontology, Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007; ³Saddleback College, 28000 Marguerite Parkway, Mission Viejo, CA 92692.

147 2:40 **A MAMMOTH AND ASSOCIATED FAUNA FROM NEWPORT BACKBAY 25,000 YEARS BEFORE PRESENT.**

S. Gust and K. Scott. Cogstone Resource Management Inc., 1801 E. Parkcourt Place, Ste. B102, Santa Ana, CA 92701.

3:00–3:20 **BREAK**

148 E 3:20 **VARIATION AND SEXUAL SIZE DIMORPHISM IN PLEISTOCENE GROUND SLOTHS (XENARTHRA).**

Kristina R. Raymond and Donald R. Prothero. Department of Geology, Occidental College, Los Angeles, CA 90041.

149 3:40 **PALEOENVIRONMENTAL INTERPRETATIONS OF PLEISTOCENE DEPOSITS AT THE PACIFIC CITY PROJECT SITE IN HUNTINGTON BEACH, SOUTHERN CALIFORNIA.**

L.H. Fisk¹ and M.R. Roeder². ¹PaleoResource Consultants, 5325 Elkhorn Boulevard, #294, Sacramento, CA 95842; ²Paleo Environmental Associates, Inc., 1731 New Hampshire Drive, Costa Mesa, CA 92626.

Saturday, June 2, 2007

Location: ONTIVEROS

Session: Avian Biology

Chair: Kathy Keane, Keane Biological Consulting

Saturday, June 2, 2007

- 150 E 9:00 NESTING SUCCESS OF COSTA'S HUMMINGBIRD IN ARTICHOKE THISTLE
INVADED CALIFORNIA GRASSLANDS.
R.J. Keber and S.A. Banack. Southern California Ecosystems Research Program,
California State University, Fullerton, Department of Biological Science, Fullerton, CA
92834.
- 151 9:20 POPULATION STATUS AND TRENDS OF THE CALIFORNIA LEAST TERN,
STERNULA ANTILLARUM BROWNI, AND THE WESTERN SNOWY PLOVER,
CHARADRIUS ALEXANDRINUS NIVOSUS.
Jack M. Fancher. U.S. Fish and Wildlife Service, Carlsbad Fish and Wildlife Office,
Carlsbad, CA 92011.
- 152 E 9:40 DISTRIBUTION AND HABITAT ANALYSIS OF THE WESTERN BURROWING
OWL IN AN URBANIZING ENVIRONMENT.
Ginny A. Short. University of California, Riverside, Department of Biology, Riverside,
CA 92521.
- 153 10:00 2006 CACTUS WREN STUDY, NATURE RESERVE OF ORANGE COUNTY.
R.A. Hamilton and M.J. Mitrovich. Nature Reserve of Orange County, 15600 Sand
Canyon Avenue, Irvine, CA 92618.
- 154 10:20 *CHARADRIUS ALEXANDRINUS* POPULATION SURVEYS AT OWENS DRY LAKE,
INYO COUNTY CALIFORNIA PRE- AND POST SHALLOW FLOOD DUST
CONTROL IMPLEMENTATION.
G.M. Honan¹, R. Romero¹, J. Gorham¹, G.W. Page², and T.D. Ruhlen². ¹CH2M HILL,
Santa Ana, CA; ²PRBO Conservation Science, Petaluma, CA.
- 10:40–11:00 BREAK
- 11:00–11:20 Student Grant Awards. *Titan Theatre*.
- 11:20–12:20 Plenary Lecture. *Titan Theatre*.
Dr. Steve Murray, Dean of Natural Sciences and Mathematics, California State
University, Fullerton.

SCIENCE, POLITICS, THE PUBLIC AND PROTECTING CALIFORNIA'S COASTAL
MARINE ECOSYSTEMS

12:20–1:20 LUNCH BREAK

Location: ONTIVEROS

Session: Hydrology and Aquatic Life of the Santa Ana River

Chair: Richard Zembal, Orange County Water District

- 155 1:20 THE SANTA ANA RIVER FROM CREST TO CREST – A PHOTO EXPLORATION.
Patrick Michell.

- 156 1:40 **LEAST BELL'S VIREOS OF THE SANTA ANA RIVER – RECOVERY IN PROGRESS.**
S. Hoffman, R. Zembal, J. Pike, D. Pelligrini, T. Wiater, B. Nash, M. Aimar, T. Reeser, A. Beckman, and J. Coumoutso. The Santa Ana Watershed Association, 25864-K Business Center Dr., Redlands, CA 92374.
- 157 2:00 **RESTORATION OF THE RIPARIAN FORESTS OF THE SANTA ANA RIVER. THE SANTA ANA RIVER WATERSHED PROGRAM, 1997–2007.**
Richard Zembal. Natural Resources Director, Orange County Water District, 10500 Ellis Avenue, Fountain Valley, CA 92708.
- 158 2:20 **HERPETOLOGICAL SURVEYS OF THE SANTA ANA WATERSHED.**
M. Aimar, R. Zembal, J. Bradley, S. Hoffman, B. Nash, T. Wiater, T. Reeser, A. Beckman, and J. Coumoutso. Santa Ana Watershed Association, 25864-K Business Center Dr., Redlands, CA 92374.
- 159 2:40 **HISTORICAL CHANGES IN THE FRESHWATER FISH FAUNA OF THE SANTA ANA RIVER.**
 Camm C. Swift¹ and Roy Leidy². ¹Entrix, Inc., 2140 Eastman Avenue, Suite 200, Ventura, CA 93003; ²EIP Associates, a division of PBS&J, 1200 Second Street, Suite 200, Sacramento, CA 95814.
- 3:00–3:20 **BREAK**
- 160 3:20 **BIOLOGIC, HISTORIC AND SOCIAL CONSIDERATIONS FOR INTRODUCTIONS OF SANTA ANA SUCKER (*CATOSTOMUS SANTAANAE*) AND SANTA ANA SPECKLED DACE (*RHINICHTHYS OSCULUS* SSP.) INTO THE UPPER SANTA ANA RIVER.**
Gar Abbas. USDA Forest Service, San Bernardino National Forest, San Bernardino, CA 92408.
- 161 3:40 **FLORA OF THE SANTA ANA RIVER.**
Oscar F. Clarke and Greg Ballmer.
- 162 4:00 **DEMYSTIFYING A RARE AND SECRETIVE SPECIES OF THE SANTA ANA RIVER, THE SOUTH COAST GARTERSNAKE (*THAMNOPHIS SIRTALIS* SSP.).**
Edward L. Ervin¹, Clark R. Mahrtdt², and Bonnie Nash³. ¹Merkel & Associates, Inc., San Diego, CA 92123; ²San Diego Natural History Museum, San Diego, CA 92101; ³Orange County Water District, Fountain Valley, CA 92708.
- 163 4:20 **CHANGES IN HABITAT AFFECT THE POPULATION DYNAMICS OF THE FEDERALLY THREATENED SANTA ANA SUCKER, *CATOSTOMUS SANTAANAE*, IN THE SANTA ANA RIVER.**
Andrew Thompson¹, Jonathan Baskin^{2, 3}, and Tom Haglund^{2, 3}. ¹U.S. Fish and Wildlife Service, 6010 Hidden Valley Road, Carlsbad, CA 92011; ²Biological Sciences Department, California State Polytechnic University Pomona, 3801 West Temple Avenue, Pomona, CA 91768; ³San Marino Environmental Associates, 560 South Greenwood Ave., San Marino, CA 91108.
- 164 4:40 **AQUATIC INSECTS OF THE SANTA ANA RIVER: COMMUNITY STRUCTURE AND BIOASSESSMENT ON ALTITUDINAL GRADIENT.**
W. E. Walton and B. A. Mullens. Department of Entomology, University of California, Riverside, CA 92521.

Saturday, June 2, 2007

Location: ALVARADO

**Session: Diseases and other Maladies of Southern California
Marine Mammals**

Chair: Richard H. Evans, Pacific Marine Mammal Center

- 165 E 8:20 **PSEUDO-NITZSCHIA BLOOM DYNAMICS IN COASTAL WATERS NEAR LOS ANGELES AND CONFIRMED CASES OF DOMOIC ACID POISONING IN MARINE MAMMALS.**
A. Schnetzer¹, D.A. Caron¹, L. Palmer², M. Hunter³, and R. Evans³. ¹Department of Biological Sciences, University of Southern California, Los Angeles, CA 90089; ²Marine Mammal Care Center at Fort McArthur, San Pedro, CA 90732; ³Pacific Marine Mammal Center, Laguna Beach, CA 92651.
- 166 8:40 **DOMOIC ACID POISONING OF CALIFORNIA SEA LIONS IN SOUTHERN CALIFORNIA WATERS: CLINICAL AND PATHOLOGICAL FINDINGS.**
R. H. Evans. Pacific Marine Mammal Center, 20612 Laguna Canyon Road, Laguna Beach, CA 92651.
- 167 9:00 **LEVELS OF PCBS AND DDT IN PINNIPEDS OF THE SOUTHERN CALIFORNIA BIGHT.**
Mary Blasius and G.D. Goodmanlowe. California State University, Long Beach, CA 90840.
- 168 9:20 **A PRELIMINARY EXAMINATION OF MORTALITY PATTERNS IN STRANDED SAN DIEGO COUNTY CETACEANS, 1978–2006.**
K. Danil¹ and J. St. Leger². ¹Southwest Fisheries Science Center, 8604 La Jolla Shores Dr., La Jolla, CA 92037; ²Sea World, 500 Sea World Dr., San Diego, CA 92109.
- 169 9:40 **STAPHYLOCOCCUS AUREUS NEPHRITIS IN A CALIFORNIA SEA LION (*ZALOPHUS CANUS*)**
V. Favel. Pacific Marine Mammal Center, 20612 Laguna Canyon Road, Laguna Beach, CA 92651.
- 170 10:00 **BRUCELLA IN MARINE MAMMALS.**
Judy St. Ledger. SeaWorld, 500 Sea World Dr., San Diego, CA 92109.
- 171 10:20 **MISCELLANEOUS CASE REPORTS AND “SWEET TREATMENT” OF A SHARK BITE.**
Lauren Palmer. Marine Mammal Care Center, Fort MacArthur, San Pedro, CA.
- 10:40–11:00 **BREAK**
- 11:00–11:20 **Student Grant Awards.** *Titan Theatre.*
- 11:20–12:20 **Plenary Lecture.** *Titan Theatre.* Dr. Steve Murray, Dean of Natural Sciences and Mathematics, California State University, Fullerton.

**SCIENCE, POLITICS, THE PUBLIC AND PROTECTING CALIFORNIA’S COASTAL
MARINE ECOSYSTEMS**

12:20–1:20 **LUNCH BREAK**

Saturday, June 2, 2007

Location: GILMAN

Session: Contributed Papers

- 172 9:00 **TIDAL DYNAMICS OF FECAL INDICATOR BACTERIA (FIB) IN THE BALLONA WETLANDS, LOS ANGELES COUNTY, CALIFORNIA.**
A. A. Antonino¹, P. M. Carter¹, M. R. Ogletree¹, J. H. Dorsey¹ and R. Sagarin². ¹Loyola Marymount University, Department of Natural Science, Los Angeles, CA 90045; ²Nicholas Institute for Environmental Policy Solutions, Box 90328, Duke University, Durham, NC 27708.
- 173 E 9:20 **PRELIMINARY ETHNOBOTANICAL INVESTIGATION ON CURRENT USE OF *HYDROCOTYLE RANUNCULOIDES* L.F. IN IXTLAHUCA AND SAN MATEO, TEXCALYACAC, MEXICO.**
C.J. Cortez and S.A. Banack. Department of Biological Science, California State University, Fullerton, 800 N. State College Blvd., Fullerton, CA 92834.
- 174 M 9:40 **THE USE OF BEDSIDE ULTRASOUND TO DETECT FREE FLUID IN TRAUMA PATIENTS.**
Jarrod L. Larson, J. Christian Fox, Graciela Barajas, and Suleman Ahmed. University of California, Irvine Medical Center, University of California, Irvine, Department of Emergency Medicine, Orange, CA 92868.
- 175 10:00 **ARMORED MIXED-SOFT SEDIMENTS - A DISTINCTIVELY DIFFERENT SEDIMENT PARADIGM?**
D. C. Lees¹ and W. B. Driskell². ¹Littoral Ecological & Environmental Services, 1075 Urania Ave., Leucadia, CA 92024; ²6536 20th Ave. NE, Seattle, WA 98115.
- 176 10:20 **DELAYED RECOVERY IN INTERTIDAL CLAM ASSEMBLAGES IN PRINCE WILLIAM SOUND FOLLOWING THE *EXXON VALDEZ* OIL SPILL CLEANUP.**
D. C. Lees¹ and W. B. Driskell². ¹Littoral Ecological & Environmental Services, 1075 Urania Ave., Leucadia, CA 92024; ²6536 20th Ave. NE, Seattle, WA 98115.
- 10:40–11:00 **BREAK**
- 11:00–11:20 **Student Grant Awards.** *Titan Theatre.*
- 11:20–12:20 **Plenary Lecture.** *Titan Theatre.*
Dr. Steve Murray, Dean of Natural Sciences and Mathematics, California State University, Fullerton.

SCIENCE, POLITICS, THE PUBLIC AND PROTECTING CALIFORNIA'S COASTAL MARINE ECOSYSTEMS

12:20–1:20 **LUNCH BREAK**

Saturday, June 2, 2007

Location: ALVARADO

Session: Contributed Papers

- 177 1:20 **BALANCING RANIDS AND RECREATION: FOREST SERVICE EFFORTS TO PROTECT MOUNTAIN YELLOW-LEGGED FROGS AND QUALITY RECREATION OPPORTUNITIES.**
Gar Abbas, Anne Poopatanapong, and Marc Stamer. USDA Forest Service, San Bernardino National Forest, San Bernardino, CA 92408.

- 178 M 1:40 CHRONOTROPIC AND INOTROPIC EFFECTS OF HAWTHORN (*CRATAEGUS OXYCANTHA*) EXTRACTS IN CARDIOMYOCYTE-BASE ASSAY.
Satin Salehi, Shannon R. Long, Kristi M. Crofoot, and Theresa M. Filtz. Oregon State University, College of Pharmacy, Corvallis, OR.
- 179 F 2:00 EFFECTS OF INCREASED CURRENT VELOCITY ON THE GROWTH OF JUVENILE CAPTIVE BROODSTOCK COHO SALMON (*ONCORHYNCHUS KISUTCH*).
John Silveus and Erick Sturm. Southwest Fisheries Science Center, National Marine Fisheries Service, 110 Shaffer Road, CA 95060.
- 180 2:20 ADDITIONAL RECORDS FOR PACIFIC HADAL ZONE ECHINODERMS.
K.D. Trego. Nautilus Oceanic Institute, La Jolla, CA 92037.
- 181 2:40 WHALE FALL DEPLETION AND ECOSYSTEM EFFECTS FOR ABYSSAL/HADAL MEGAFUNA ECHINODERMS.
K.D. Trego. Nautilus Oceanic Institute, La Jolla, CA 92037.
- 3:00–3:20 BREAK
- 182 3:20 DYNAMICS OF PLANETARY INTERIOR OCEANS AND SURFACE EXPANSION OF POTENTIAL ECOSYSTEMS.
K.D. Trego. Nautilus Oceanic Institute, La Jolla, CA 92037.
- 183 F 3:40 SEASONAL AGGREGATIONS OF FEMALE ROUND STINGRAYS (*UROBATUS HALLERI*) IN A COASTAL ESTUARY.
C.G. Mull, K.A. Young, and C.G. Lowe. Department of Biological Sciences, California State University, Long Beach, CA 90840.

Saturday, June 2, 2007

Location: HETEBRINK

Session: Research Training Program

Chair: Dr. Martha Schwartz, Southern California Junior Academy of Sciences Committee

- 184 9:00 CIRCUIT DYNAMICS AND MODELING OF THE GAUSS ACCELERATOR.
J. Luo and O. O. Bernal. California State University Los Angeles, Department of Physics and Astronomy, Los Angeles, CA 90032.
- 185 9:20 A STUDY OF ENTEROBACTERIACEAE AT TWO ENCLOSED BEACHES IN LOS ANGELES, CALIFORNIA.
S. Yanamadala and J.H. Dorsey. Chadwick School, 26800 S. Academy Drive, Palos Verdes, CA 90274.
- 186 9:40 EXPLORATION OF PROTEIN LRP16'S FUNCTION AS A RESULT OF ITS CORRESPONDING DNA SEQUENCES THROUGHOUT THE EVOLUTIONARY TREE.
Shahla Naimi. California Academy of Math and Science, Carson, CA 90747.
- 187 10:00 PERMANENT UPLIFT OF THE MENTAWAI ISLANDS AND THE MEGATRUST EARTHQUAKE CYCLE.
Hassan Ahmad. 501 N Chapel Ave. #1, Alhambra, CA 91801.
- 188 10:20 PHYSICAL ASPECTS OF SOUTHERN CALIFORNIA BEACHES AND HOW PEOPLE PERCEIVE THEM: CONSIDERATIONS FOR BEACH NOURISHMENT PLANNING.
Scott H. Grove. Sonora High School, La Habra, CA; California State University, Monterey Bay, CA.

10:40–11:00 **BREAK**

11:00–11:20 **Student Grant Awards.** *Titan Theatre.*

11:20–12:20 **Plenary Lecture.** *Titan Theatre.* **Plenary Lecture.** *Titan Theatre.*
Dr. Steve Murray, Dean of Natural Sciences and Mathematics, California State University, Fullerton.

SCIENCE, POLITICS, THE PUBLIC AND PROTECTING CALIFORNIA'S COASTAL MARINE ECOSYSTEMS

12:20–1:20 **LUNCH BREAK**

189 1:20 **PRODUCTION AND CHARACTERIZATION OF EFFICIENT C60-TETHERED AU NANOPARTICLES FOR THE DELIVERY OF PHOTOSENSITIZERS.**

May Y. Chow¹ and Matthias Selke². ¹Alhambra High School, Alhambra, CA 91801; ²California State University, Los Angeles, CA.

190 1:40 **THE SIGNAL TRANSDUCTION PATHWAY FOR MUSCLE CELL APOPTOSIS IN AGING AND INJURY.**

Sanjit Datta and A.P. Sinha Hikim. Los Angeles Biomedical Research Institute at the Harbor-UCLA Medical Center, Harbor City, CA 90710.

191 2:00 **A CASE-CONTROL STUDY OF COMMUNITY-ACQUIRED METHICILLIN RESISTANT *STAPHYLOCCUS AUREUS* SKIN AND SOFT TISSUE INFECTIONS AMONG INMATES IN THE LOS ANGELES COUNTY JAIL.**

Ji-Mi (Jenny) Lee. California Academy of Mathematics and Science (CAMS), Carson, CA 90747; California State University, Dominguez Hills, 100 East Victoria Street, Carson, CA 90747.

192 2:20 **THE ABILITY OF *BACCHARIS SALICIFOLIA* TO ABSORB CADMIUM AS AN EFFLUENT: IMPLICATIONS FOR PHYTOREMEDIATION: YEAR TWO.**

Nisha Wadhwa¹ and Katie Brandt². ¹Palos Verdes Peninsula High School, Rolling Hills Estates, CA; ²California State University, Dominguez Hills, CA.

193 2:40 **PROTEASE INHIBITORS IN AUGMENT TEMOZOLOMIDE-BASED TREATMENT FOR MALIGNANT GLIOMAS**

J.J. Wang, W.J. Wang, and T.C. Chen. Department of Neurosurgery, University of Southern California, Los Angeles, CA 90033.

3:00–3:20 **BREAK**

194 3:20 **OXIDATION OF L-DOPA IN MUSSEL BYSSUS DISC ADHESION.**

Renee Bogdanovic. Palos Verdes Peninsula High School, Rolling Hills Estates, CA 90274.

195 3:40 **STUDY ON THE TRUNCATION OF CONVEX SYMMETRICAL POLYHEDRA.**

Brian Li. Chadwick School, 26800 S. Academy Drive, Palos Verdes, CA.

196 4:00 **PREDICTING LUNG CANCER RELAPSE USING LEVELS OF 2881 PROTEINS.**

Timothy Wu¹ and Dennis Kibler². ¹University High School, 4771 Campus Drive, Irvine, CA 92612; ²University of California, Irvine, CA 92697.

197 4:20 **PROTOCOLS FOR *HALIOTIS RUFESCENS* EGG CRYOPRESERVATION AND *IN VITRO* FERTILIZATION (YEAR 2).**

Julie A. Guerin. Cabrillo Marine Aquarium, San Pedro, CA 90731; Palos Verdes Peninsula High School, Rolling Hills Estates, CA 90274.

198 4:40 **MAGNETORHEOLOGICAL FLUID SHEER STRESS AND THE MORPHING OF AIRPLANE WINGS.**

Anshu Vaish. Palos Verdes Peninsula High School, Rolling Hills Estates, CA 90274.